WATER, AIR, & SOIL POLLUTION

AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION

VOLUME 133 / 2002

KLUWER ACADEMIC PUBLISHERS
DORDRECHT / BOSTON / LONDON

EDITOR-IN-CHIEF
J.T. Trevors,
Department of Environmental Biology, University of Guelph, Ontario, Canada
E-mail: JTrevors@UoGuelph.ca

FOUNDING EDITOR
B.M. McCormac

ASSOCIATE EDITORS

T. Anderson (soil ecosystems and pesticides)
The Institute of Environmental and Human Health, Texas Tech University, Lubbock, TX, U.S.A.
J. Bartnicki (air pollution)
Norwegian Meteorological Institute, Oslo, Norway
I. Colbeck (global change and atmospheric pollution)
Institute of Environmental Research, Department of Biological Science, University of Essex, Colchester, U.K.
G.M. Gadd (metals)
Department of Biological Sciences, University of Dundee, Scotland, U.K.
U. Lundström (forestry)
Department of Chemistry and Process Technology, Mid Sweden University, Sundvall, Sweden
R. Psenner (aquatic pollution)
Institute of Zoology and Limnology, Innsbruck, Austria
J.B. Rasmussen (marine and coastal pollution)
Department of Biology, McGill University, Montréal, Canada
A.W. Rate (soil and environmental chemistry)
Soil Science and Plant Nutrition Group, University of Western Australia, Nedlands, Australia
R. Reuther (water chemistry and pollution)
Enas Environmental Assessments, Teningen, Germany
J. Stamm (aquatic pollution)
Institute for Hydromechanics, University of Karlsruhe, Karlsruhe, Germany
R. F. Turco Jr. (environmental sciences and microbiology)
Laboratory for Soil Microbiology, Department of Agronomy, Purdue University, West Lafayette, IN, U.S.A.

EDITORIAL BOARD

V.N. Bashkin, *Moscow, Russia*
R. A. Beck, *Washington, DC, U.S.A.*
B.H. Belliveau, *Ottawa, Ontario, Canada*
M. Benarie, *Suresnes, France*
S.L. Brown, *Seattle, WA, U.S.A.*
R.M. Cox, *Fredericton, NB, Canada*
R. Dallinger, *Innsbruck, Austria*
S. Z. El-Sayed, *College Station, TX, U.S.A.*
C. G. Golueke, *Concord, CA, U.S.A.*
B. M. Greenberg, *Waterloo, Ontario, Canada*
J.O. Grimalt, *Barcelona, Spain*
B. Gu, *Oakridge, TN, U.S.A.*
K. A. Johnson, *Edwardsville, IL, U.S.A.*
R. E. Kohn, *Edwardsville, IL, U.S.A.*
H.P. van Leeuwen, *Wageningen, The Netherlands*
J. Lelieveld, *Mainz, Germany*
R. McLaren, *Canterbury, New Zealand*
U. Mingelgrin, *Bet Dagan, Israel*
R. Mosello, *Verbania Pallanza, Italy*
H. Okamura, *Kurashiki, Japan*
H. Seki, *Tsukuba, Japan*
A.N. Tyler, *Stirling, UK*
G. Tyler, *Lund, Sweden*
M. Verloo, *Ghent, Belgium*
R.L. Victoria, *Piracicaba, Brazil*
T. Viraraghavan, *Regina, Canada*
R.M. Zablotowicz, *Stoneville, MS, U.S.A.*
J. Zhang, *Qingdao, China*

ISSN 0049–6979

All Rights Reserved
© 2002 Kluwer Academic Publishers
No part of the material protected by this copyright notice may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage and retrieval system, without written permission from the copyright owner.

Printed in the Netherlands

WATER, AIR, AND SOIL POLLUTION / *Volume 133 Nos. 1–4 January 2002*

D.C. SU and J.W.C. WONG / The Growth of Corn Seedlings in Alkaline Coal Fly Ash Stabilized Sewage Sludge 1–13

G.P. AYERS, L.C. PENG, R.W. GILLETT and L.S. FOOK / Rainwater Composition and Acidity at Five Sites in Malaysia, in 1996 15–30

P.J. DROHAN and D.R. DEWALLE / Defoliation and Atmospheric Deposition Influences on Spring Baseflow Chemistry in 56 Pennsylvania Mixed Land-Use Watersheds 31–48

A.W. REA, S.E. LINDBERG, T. SCHERBATSKOY and G.J. KEELER / Mercury Accumulation in Foliage over Time in Two Northern Mixed-Hardwood Forests 49–67

P.M. FEARNSIDE / Greenhouse Gas Emissions from a Hydroelectric Reservoir (Brazil's Tucuruídam and the Energy Policy Implications 69–96

A.G. JIRIES, F.M. AL NASIR and F. BEESE / Pesticide and Heavy Metals Residue in Wastewater, Soil and Plants in Wastewater Disposal Site Near Al-Lajoun Valley, Karak/Jordan 97–107

W.G. BRUMBAUGH. J.D. PETTY, J.N. HUCKINS and S.E. MANAHAN / Stabilized Liquid Membrane Device (SLMD) for the Passive Integrative Sampling of Labile Metals in Water 109–119

M. ALOUPI and M.O. ANGELIDIS / The Significance of Coarse Sediments in Metal Pollution Studies in the Coastal Zone 121–131

A. LÓPEZ, R. ESPEJO and M. VIDAL / Study of Ammonium Contamination in Leachates from an Ultisol Following Application of Various Types of Amendment 133–143

QIXING ZHOU and TIEHANG SUN / Effects of Chromium (VI) on Extractability and Plant Uptake of Fluorine in Agricultural Soils of Zhejiang Province, China 145–160

J. MOLÉNAT, P. DURAND, C. GASCUEL-ODOUX, P. DAVY and G. GRUAU / Mechanisms of Nitrate Transfer from Soil to Stream in an Agricultural Watershed of French Brittany 161–183

S. PIIRAINEN, L. FINÉR and M. STARR / Deposition and Leaching of Sulphate and Base Cations in a Mixed Boreal Forest in Eastern Finland 185–204

Z. NAN, C. ZHAO, J. LI, F. CHEN and W. SUN / Relations between Soil Properties and Selected Heavy Metal Concentrations in Spring Wheat (*Triticum Aestivum L.*) Grown in Contaminated Soils 205–213

G.G. PYLE, S.M. SWANSON and D.M. LEHMKUHL / The Influence of Water Hardness, pH, and Suspended Solids on Nickel Toxicity to Larval Fathead Minnows (*Pimephales Promelas*) 215–226

H-H. LISTE, A. QUIÑONES-RIVERA and JIXIN TANG / Availability of Aged Toluene and Decane for Biodegradation in Soil 227–234

A. CARBALLEIRA, J.A. COUTO and J.A. FERNÁNDEZ / Estimation of Background Levels of Various Elements in Terrestrial Mosses from Galicia (NW Spain) 235–252

B. ALPASLAN and M.A. YUKSELEN / Remediation of Lead Contaminated Soils by Stabilization/Solidification 253–263

B. DEMIRATA, R. APAK, G. GÜMÜS and H. AFSAR / The Effect of the Order of Reagent Addition on the Settling Rate of Aluminium Hydroxide in the Al(III)-Na_2CO_3 System 265–282

P. FISCHER and M.S. SEXAUER GUSTIN / Influence of Natural Sources on Mercury in Water, Sediment and Aquatic Biota in Seven Tributary Streams of the East Fork of the Upper Carson River, California 283–295

S.V. COOK, A. CHU and R.H. GOODMAN / Leachability and Toxicity of Hydrocarbons, Metals and Salt Contamination from Flare Pit Soil 297–314

A. KLUMMP, M. DOMINGOS and G. KLUMPP / Foliar Nutrient Contents in Tree Species of the Atlantic Rain Forest as Influenced by Air Pollution from the Industrial Complex of Cubatão, SE-Brazil 315–333

T. HARTIKAINEN, P.J. MARTIKAINEN, M. OLKKONEN and J. RUUSKANEN / Peat Biofilters in Long-Term Experiments for Removing Odorous Sulphur Compounds 335–348
Y. KU and H-M. CHIOU / The Adsorption of Fluoride Ion from Aqueous Solution by Activated Alumina 349–360
M. MANDRE / Relationships between Lignin and Nutrients in *Picea Abies* L. under Alkaline Air Pollution 361–377
H. ZHANG and S.E. LINDBERG / Trends in Dissolved Gaseous Mercury in the Tahquamenon River Watershed and Nearshore Waters of Whitefish Bay in the Michigan Upper Peninsula 379–389
Authors Index 391–392

Electronic journals at
KluwerOnline
WWW.KLUWERONLINE.NL
Contact your librarian for more information